TABLE 7.3. ADDITIONAL PARTICIPANT COMMENTS, SUGGESTIONS, RECOMMENDATIONS

SUMMARY ITEMS	PERCENT		NUMBER	
	SEED	COMPARISON	SEED	COMPARISON
All comments (Q. 81)	100.0	100.0	56	83
Program useful, successful, essential; should be continued, expanded	42.9	22.9	24	19
Suggestions for future international scientific activities with respect to funding, recipients, requirements or specific projects	25.0	14.5	14	12
Remarks regarding the specific circumstances of individual awards	8.9	21.7	5	15
Comments about the survey, the questionnaire and specific items in the instrument	8.9	26.5	5	22
Other miscellaneous comments	14.3	14.5	8	15

> "An outstanding program and a significant professional experience for me ...."

There were other reflections on the same theme:

> "NSF grant support is extremely valuable for persons in my field of research ...."

> "It was an intellectually, personally, and professionally satisfying and fulfilling experience. Also some very good scientific work was done."

An additional 20 percent of COMPARISON, as compared to nine percent of SEED, scientists commented on the circumstances surrounding their grants. Twenty-five percent of SEED and approximately 15 percent of COMPARISON members made various suggestions regarding the future of this or a similar program. There were also suggestions to increase the budget of the Division of International Programs (" ... because of the benefits/costs of collaborative international research") and complaints about lack of funds, equipment, and cooperation. In contrast to SEED respondents, more than 25 percent of the COMPARISON scientists raised issues (e.g., utility and appropriateness of method) about the survey. Some thought it was long and tedious, while others remarked that the instrument did not suit the particular activity in which they participated. It appears, however, that this was not a major issue with SEED, since only about nine percent commented specifically on the survey.

A major theme that emerged time and again from the collation of suggestions, recommendations, and critical remarks was that international scientific activities were useful and successful and should not only be continued, but also expanded.

TABLE A1

Type of Award by Nonrespondent Compared to Total Eligible Population Crosstabulated by Group

	SEED Group			COMPARISON Group		
Award Purpose	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category
Research	12	92	13.0	36	221	16.3
Travel	8	85	9.4	23	92	25.0
Symposia	--	--	--	5	47	10.9
TOTAL	20	177	11.3	64	360	17.8

*Includes respondents and nonrespondents.

TABLE A2

Year of Award by Nonrespondent Compared to Total Eligible Population Crosstabulated by Group

	SEED Group			COMPARISON Group		
Year of Award	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category
1972	3	17	17.6	--	--	--
1973	5	24	20.8	--	--	--
1974	2	17	11.8	9	45	20.0
1975	3	23	13.0	19	95	20.0
1976	2	25	8.0	15	99	15.2
1977	2	30	6.7	21	121	17.4
1978	3	25	12.0	--	--	--
1979	0	16	00.0	--	--	--
TOTAL	20	177	11.3	64	360	17.8

*Includes respondents and nonrespondents.

TABLE A3

Region Visited by Nonrespondent Compared to Total Eligible Population Crosstabulated by Group

	SEED Group			COMPARISON Group		
Region	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category
Latin America	8	74	10.8	43	271	15.9
East Asia	5	50	10.0	8	32	25.0
Asia and Mid-East	5	21	23.8	11	30	36.7
Africa	2	32	6.3	2	27	7.4
TOTAL	20	177	11.3	64	360	17.8

*Includes respondents and nonrespondents.

TABLE A4

Field of Science by Nonrespondent Compared to Total Eligible Population
Crosstabulated by Group

Field of Science	SEED Group			COMPARISON Group		
	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category	Number of Nonrespondents	Total Number of Eligible*	Percentage Not Responding of Total Eligible Cases by Category
Life Sciences	3	58	5.2	13	119	10.9
Social Sciences	3	27	11.1	12	69	17.4
Engineering	10	55	18.2	8	16	50.0
Mathematics and Computer Sciences	1	6	16.7	3	5	60.0
Chemistry and Physics	1	15	6.7	6	37	16.2
Earth Sciences	2	13	15.4	22	97	22.7
TOTAL	20	177**	11.3	64	360**	17.8

*Includes respondents and nonrespondents.

**Including cases not reporting their field of science or coded "Other."

TABLE A5

Type of University or Institution at Which Nonrespondent is Currently, Crosstabulated by Group

Type of Institution	SEED Group			COMPARISON Group		
	Number of Nonrespondents	Percentage of Nonrespondents	Percentage of Total Eligible Cases	Number of Nonrespondents	Percentage of Nonrespondents	Percentage of Total Eligible Cases
Leading Institution[a]	1	5.0	0.6	22	34.4	6.1
Research Institution[b]	4	20.0	2.3	10	15.6	2.8
All Others[c]	15	75.0	8.5	32	50.0	8.9
TOTAL N-SIZE	20	100.0	177	64	100.0	360

[a] A "Leading Institution" is defined as an institution frequently rated high in science and engineering by the Roose Andersen rating.

[b] A "Research Institution" is defined as one of 50 leading universities in terms of Federal financial support of science as provided by the Carnegie Classification, and the institution was not listed as a "Leading Institution."

[c] "All Others" includes all other universities not included above and all nonuniversity facilities.

APPENDIX B

Mean Values of Productivity Measures by Various Award Characteristics for SEED and COMPARISON Groups

TABLE B1

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (SEED GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	0-∞[a]	0-1	1-5
Type of Award							
Research/Teaching	$\overline{X}$	51.6	2.9	3.2	2.9	0.9	3.9
	N	66	81	81	68	81	79
	S.D.	6.67	1.63	1.30	3.73	0.26	0.99
Travel	$\overline{X}$	49.7	3.0	2.3	1.6	0.9	3.9
	N	64	76	76	66	76	74
	S.D.	6.25	1.81	1.50	2.80	0.25	0.91
Region Involved							
Latin America	$\overline{X}$	51.4	3.3	2.8	2.1	0.9	3.8
	N	37	44	44	38	44	43
	S.D.	6.36	1.77	1.66	2.75	0.26	1.00
East Asia	$\overline{X}$	51.2	3.0	2.8	2.5	1.0	3.9
	N	38	43	43	38	43	43
	S.D.	6.58	1.57	1.43	3.45	0.15	1.01
Africa	$\overline{X}$	48.8	3.1	2.5	1.3	0.9	3.5
	N	15	18	18	15	18	18
	S.D.	6.80	1.94	1.43	2.06	0.24	1.10

[a] Highest observed value = 19

TABLE B1 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (SEED GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		**0-100**	**0-7**	**0-6**	**$0-\infty$[a]**	**0-1**	**1-5**
Predominant Activity Involved							
Research	$\overline{X}$	50.7	3.1	2.4	2.5	0.9	3.9
	N	78	96	96	80	96	94
	S.D.	7.06	1.77	1.49	3.88	0.26	1.00
Mixed	$\overline{X}$	52.3	3.1	3.5	2.2	1.0	3.8
	N	30	33	33	30	33	33
	S.D.	5.96	1.54	1.46	2.29	0.17	0.97
Teaching	$\overline{X}$	49.0	2.0	3.2	1.9	0.9	3.7
	N	20	24	24	22	24	22
	S.D.	4.00	1.35	0.66	2.60	0.28	0.77
Type of Institution Predominantly Involved							
Government Ministry or Department	$\overline{X}$	52.5	3.1	2.7	4.3	1.0	4.0
	N	15	23	23	16	23	22
	S.D.	6.65	1.73	1.25	5.15	0.21	1.17
University	$\overline{X}$	51.8	3.2	3.2	2.4	0.9	3.9
	N	59	70	70	59	70	70
	S.D.	6.45	1.75	1.61	3.35	0.28	0.89
Other	$\overline{X}$	52.1	3.2	2.5	2.7	1.0	4.2
	N	10	11	11	10	11	11
	S.D.	7.12	1.78	1.37	2.63	0.00	0.98

[a] Highest observed value = 19

TABLE B1 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (SEED GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	0-∞[a]	0-1	1-5
Field of Science							
Life Sciences	$\bar{X}$	52.7	3.6	2.9	2.9	0.9	4.2
	N	43	51	51	44	51	50
	S.D.	6.84	1.65	1.23	3.67	0.24	0.94
Social Sciences	$\bar{X}$	51.2	3.4	2.4	2.4	1.0	3.9
	N	19	21	21	19	21	21
	S.D.	4.30	1.43	1.12	2.45	0.22	0.73
Engineering	$\bar{X}$	48.1	2.1	2.6	1.3	0.9	3.7
	N	32	39	39	33	39	38
	S.D.	6.21	1.56	1.70	2.23	0.27	0.89
Mathematics and Computer Sciences	$\bar{X}$	52.1*	2.6*	3.9*	1.3*	1.0*	3.9*
	N	7	8	8	7	8	8
	S.D.	3.79	1.60	1.36	1.60	0.00	0.35
Chemistry and Physics	$\bar{X}$	48.2*	2.5	2.9	0.9*	0.8	3.1
	N	9	11	11	9	11	11
	S.D.	6.80	1.13	1.87	1.05	0.41	1.22
Earth Sciences	$\bar{X}$	49.2**	2.8	2.6	2.3*	0.8	3.6*
	N	5	10	10	6	10	9
	S.D.	9.94	2.53	1.90	2.88	0.42	0.88

[a] Highest observed value = 19

*Instances with fewer than 10 cases should be interpreted with reservation.

**Instances with five or fewer cases are not necessarily reliable and should be viewed conservatively.

TABLE B1 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (SEED GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	$0-\infty^a$	0-1	1-5
Title of R at Inception of Activity							
Professor	$\overline{X}$	51.3	3.1	2.8	2.5	0.9	3.9
	N	86	96	96	88	96	94
	S.D.	6.90	1.79	1.48	3.75	0.26	0.96
Associate Professor	$\overline{X}$	49.1	2.9	2.8	1.8	0.9	3.6
	N	29	41	41	30	41	40
	S.D.	5.78	1.61	1.42	2.16	0.26	0.93
Assistant Professor	$\overline{X}$	49.0	2.2	2.7	2.1	0.9	3.9
	N	11	15	15	12	15	14
	S.D.	4.88	1.42	1.67	3.26	0.26	0.83
Graduate Student	$\overline{X}$	-	-	-	-	-	-
	N	-	-	-	-	-	-
	S.D.	-	-	-	-	-	-
Research Associate	$\overline{X}$	52.5**	2.0**	3.0**	1.0**	1.0**	5.0**
	N	1	1	1	1	1	1
	S.D.	0.00	0.00	0.00	0.00	0.00	0.00
Project Director or Administrator	$\overline{X}$	60.9**	4.0**	3.0**	3.0**	1.0**	5.0**
	N	1	2	2	1	2	2
	S.D.	0.00	2.83	1.41	0.00	0.00	0.00
Other	$\overline{X}$	-	-	-	-	-	-
	N	-	-	-	-	-	-
	S.D.	-	-	-	-	-	-

[a] Highest observed value = 19

**Instances with five or fewer cases are not necessarily reliable and should be viewed conservatively.

TABLE B1 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (SEED GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	0-∞[a]	0-1	1-5
Age at Inception of Activity							
Less than 40	$\overline{X}$	49.2	2.9	2.6	2.2	0.8	3.7
	N	38	48	48	39	48	47
	S.D.	6.87	1.83	1.56	2.42	0.28	0.94
40-49 years	$\overline{X}$	51.7	3.1	2.9	2.5	0.9	3.9
	N	48	61	61	50	61	59
	S.D.	6.01	1.60	1.41	3.94	0.28	0.98
50-59 years	$\overline{X}$	49.0	2.5	2.6	1.6	0.9	3.7
	N	34	37	37	34	37	37
	S.D.	5.68	1.69	1.21	2.41	0.23	0.90
60 years or older	$\overline{X}$	57.4	3.8	3.6	3.7	1.0	4.8
	N	10	11	11	11	11	10
	S.D.	5.50	1.54	1.80	5.27	0.00	0.42
Activity Usually Involved In (in U.S.)							
Research	$\overline{X}$	50.5	3.1	2.5	2.5	1.0	3.9
	N	25	27	27	26	27	26
	S.D.	5.98	1.52	1.34	4.16	0.00	1.02
Mixed Activities	$\overline{X}$	51.8	3.3	2.9	2.6	0.9	3.8
	N	54	68	68	54	68	68
	S.D.	7.02	1.92	1.54	3.63	0.24	1.02
Teaching	$\overline{X}$	49.6	2.5	2.8	1.9	0.9	3.9
	N	51	62	62	54	62	59
	S.D.	6.14	1.47	1.41	2.59	0.32	0.85

[a] Highest observed value = 19

TABLE B2

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (COMPARISON GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	0-∞[a]	0-1	1-5
Type of Award							
Research/Teaching	$\overline{X}$	50.5	3.2	1.4	6.8	0.9	4.2
	N	132	182	182	136	178	177
	S.D.	7.21	1.48	1.52	10.05	0.34	0.85
Travel	$\overline{X}$	47.1	2.6	0.9	3.7	0.8	4.3
	N	49	71	71	57	66	68
	S.D.	7.23	1.69	1.25	4.48	0.43	0.86
Region Involved							
Latin America	$\overline{X}$	49.7	3.0	1.4	5.9	0.8	4.3
	N	98	142	142	102	136	139
	S.D.	7.61	1.60	1.52	9.47	0.37	0.85
East Asia	$\overline{X}$	49.3	3.0	1.3	4.4	0.8	4.1
	N	12	20	20	15	20	19
	S.D.	7.91	1.81	1.33	3.94	0.41	1.03
Africa	$\overline{X}$	49.1	3.1	1.0	6.2	0.8	4.3
	N	16	22	22	18	20	20
	S.D.	6.03	1.42	1.17	4.98	0.41	0.79

[a] Highest observed value = 72

TABLE B2 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (COMPARISON GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	0-∞[a]	0-1	1-5
Predominant Activity Involved							
Research	$\overline{X}$	49.6	3.0	1.2	6.0	0.8	4.2
	N	176	246	246	187	237	239
	S.D.	7.41	1.56	1.44	8.99	0.37	0.86
Mixed	$\overline{X}$	43.3**	2.0**	1.0**	2.0**	0.5**	4.0**
	N	2	2	2	2	2	2
	S.D.	5.31	1.41	1.41	0.00	0.71	0.00
Teaching	$\overline{X}$	49.4**	2.0**	3.0**	0.0**	1.0**	4.0**
	N	1	1	1	1	1	1
	S.D.	0.00	0.00	0.00	0.00	0.00	0.00
Type of Institution Predominantly Involved							
Government Ministry or Department	$\overline{X}$	51.9	3.6	1.8	7.1	0.9	4.2
	N	43	56	56	43	56	56
	S.D.	6.97	1.68	1.45	8.76	0.26	0.86
University	$\overline{X}$	51.1	3.5	2.0	6.6	0.9	4.2
	N	33	50	50	34	50	49
	S.D.	7.85	1.46	1.64	7.19	0.30	0.85
Other	$\overline{X}$	49.4	3.1	1.3	7.1	0.9	4.4
	N	19	27	27	20	27	26
	S.D.	8.74	1.73	1.64	15.57	0.27	0.81

[a] Highest observed value = 72

**Instances with five or fewer cases are not necessarily reliable and should be viewed conservatively.

TABLE B2 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (COMPARISON GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	0-∞[a]	0-1	1-5
Field of Science							
Life Sciences	$\overline{X}$	50.9	3.1	1.4	7.6	0.9	4.3
	N	72	99	99	74	97	99
	S.D.	6.14	1.39	1.61	10.27	0.33	0.82
Social Sciences	$\overline{X}$	51.4	3.5	1.5	6.0	0.8	4.4
	N	28	40	40	32	39	37
	S.D.	8.50	1.63	1.30	5.08	0.37	0.79
Engineering	$\overline{X}$	39.5**	4.0**	3.5**	5.5**	0.5**	4.0**
	N	1	2	2	2	2	1
	S.D.	0.00	4.24	2.12	4.95	0.71	0.00
Mathematics and Computer Sciences	$\overline{X}$	48.7**	4.0**	1.0**	2.0**	1.0**	3.5**
	N	2	2	2	2	2	2
	S.D.	1.44	1.41	1.41	2.83	0.00	0.71
Chemistry and Physics	$\overline{X}$	47.3	3.0	1.3	3.3	0.8	4.2
	N	16	22	22	16	22	22
	S.D.	8.26	1.65	1.36	2.36	0.43	1.02
Earth Sciences	$\overline{X}$	48.5	2.7	1.0	5.0	0.8	4.2
	N	43	63	63	48	57	60
	S.D.	7.54	1.60	1.30	10.92	0.38	0.86

[a] Highest observed value = 72

**Instances with five or fewer cases are not necessarily reliable and should be viewed conservatively.

TABLE B2 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (COMPARISON GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	$0-\infty$[a]	0-1	1-5
Title of R at Inception of Activity							
Professor	$\overline{X}$	49.8	3.0	1.4	5.2	0.9	4.3
	N	72	100	100	78	98	96
	S.D.	7.52	1.65	1.59	8.93	0.32	0.86
Associate Professor	$\overline{X}$	49.7	3.2	1.3	5.9	0.8	4.3
	N	43	57	57	46	54	55
	S.D.	7.14	1.48	1.34	9.65	0.38	0.73
Assistant Professor	$\overline{X}$	49.0	3.1	1.0	5.9	0.8	4.3
	N	32	44	44	33	42	43
	S.D.	7.54	1.52	1.39	4.69	0.40	0.90
Graduate Student	$\overline{X}$	52.2*	3.1	1.5	12.9*	0.8	4.4
	N	9	15	15	9	15	14
	S.D.	3.02	1.69	1.55	14.44	0.41	0.63
Research Associate	$\overline{X}$	48.9	2.3	0.7	6.1	0.7	4.2
	N	14	22	22	16	20	22
	S.D.	8.79	1.17	1.08	10.60	0.47	0.66
Project Director or Administrator	$\overline{X}$	48.7*	3.2*	2.0*	6.2*	0.8*	3.9*
	N	6	9	9	6	9	9
	S.D.	9.60	1.56	1.41	6.24	0.44	1.27
Other	$\overline{X}$	53.6**	4.5**	3.5**	6.0**	0.5**	3.5**
	N	1	2	2	1	2	2
	S.D.	0.00	2.12	0.71	0.00	0.71	2.12

[a] Highest observed value = 72

*Instances with fewer than 10 cases should be interpreted with reservation.

**Instances with five or fewer cases are not necessarily reliable and should be viewed conservatively.

TABLE B2 (Continued)

MEAN VALUES OF PRODUCTIVITY MEASURES BY VARIOUS AWARD CHARACTERISTICS (COMPARISON GROUP)

		OVERALL PRODUCTIVITY	RESULTS FOR U.S.	RESULTS FOR FOREIGN	WRITTEN PRODUCTS	CONTACT MAINTAINED	SELF-EVALUATED PRODUCTIVITY
POSSIBLE RANGE		0-100	0-7	0-6	$0-\infty^{a}$	0-1	1-5
Age at Inception of Activity							
Less than 40	$\bar{X}$	49.5	3.1	1.2	6.5	0.8	4.2
	N	98	133	133	101	129	130
	S.D.	7.11	1.58	1.38	8.18	0.40	0.81
40-49 years	$\bar{X}$	48.6	2.8	1.3	6.5	0.8	4.1
	N	45	67	67	50	65	64
	S.D.	8.71	1.40	1.62	12.51	0.38	0.97
50-59 years	$\bar{X}$	51.6	3.5	1.6	4.2	0.9	4.4
	N	23	31	31	26	29	30
	S.D.	6.45	1.65	1.54	4.10	0.26	0.68
60 years or older	$\bar{X}$	49.0	2.3	0.9	2.5	1.0	4.5
	N	10	13	13	11	12	13
	S.D.	5.06	1.38	1.19	2.42	0.00	0.88
Activity Usually Involved In (in U.S.)							
Research	$\bar{X}$	49.2	2.7	1.3	5.7	0.8	4.2
	N	57	82	82	60	79	80
	S.D.	7.57	1.54	1.40	8.60	0.40	0.85
Mixed Activities	$\bar{X}$	50.1	3.2	1.3	6.2	0.9	4.3
	N	92	124	124	98	119	121
	S.D.	7.31	1.64	1.51	9.16	0.34	0.81
Teaching	$\bar{X}$	48.7	3.3	1.2	6.1	0.8	4.0
	N	27	40	40	29	40	38
	S.D.	7.35	1.29	1.49	9.39	0.41	0.89

[a] Highest observed value = 72

APPENDIX C

Sample Questionnaire

INSTITUTE FOR SURVEY RESEARCH
TEMPLE UNIVERSITY
-Of The Commonwealth System Of Higher Education-
1601 NORTH BROAD STREET
PHILADELPHIA, PENNSYLVANIA 19122

STUDY #518-037-01
WINTER 1980

OMB NO.: 099-S80003
EXPIRES: DECEMBER 1982

SURVEY OF NSF INTERNATIONAL SCIENTIFIC ACTIVITIES

U.S. PARTICIPANT QUESTIONNAIRE

(Please complete):

NAME :______________________________

INSTITUTION:______________________________

DEPARTMENT *(If applicable)*:______________________________

ADDRESS :______________________________

____

TELEPHONE :( )______________________________

☐ Please check here if you would like a copy of the results of this survey.

This questionnaire is concerned with your participation in NSF-sponsored international scientific activities. The information you provide will be given maximum protection from disclosure, subject to applicable laws including the Freedom of Information Act, 5USC 552. Individuals will not be identified with their answers. This questionnaire applies to the international scientific activity supported by the award indicated below, and previous NSF awards to you for work being continued by this award. Consider the entire activity up to and including this award when formulating your responses.

LABEL HERE

INSTRUCTIONS FOR COMPLETING THIS QUESTIONNAIRE

In answering the various questions in this questionnaire you may feel you cannot provide an exact answer or you may not remember some of the details. Please give us your best estimate, or as much detail as you can remember, in such cases, before continuing with the next question.

There are basically three type of questions: the closed-end "yes" or "no" questions; open-end questions where you are asked to fill in the information sought; and questions with rating scales. An example of each type is shown below.

1. Have you ever received support from the NSF to participate in an international scientific activity?

1. ☒ Yes *(ANSWER Q. 2)*	2. ☐ No *(GO TO Q. 3)*

2. When was the first such time you received NSF support?

April	1975
(MONTH)	(YEAR)

3. On a scale ranging from "not important" (1) to "very important" (5), how would you rate the role of external support in the professional development of a scientist?

NOT IMPORTANT → VERY IMPORTANT

1	2	3	4	5
☐	☐	☐	☒	☐

4. Some of the common problems encountered in any scientific activity are shown below. Which are important for you?

☐ 1. Insufficient financial resources.

☒ 2. Lack of skilled support staff.

☒ 3. Inadequate access to facilities.

☐ 4. Excessive administrative requirements.

☒ 5. Inadequate time to accomplish objectives.

☒ 6. Inefficient cooperation among colleagues.

5. Of the items chosen in Question 4, which three do you consider most important? *(Rank by using the item numbers from Q. 4.)*

MOST IMPORTANT	SECOND MOST IMPORTANT	THIRD MOST IMPORTANT
5	3	6

6. What do you think is the primary role of periodic evaluations of research programs?

To make sure the objectives of the program are being met, and that the specific objectives are worthwhile to pursue, in terms of their contribution to the society as a whole.

Please answer all the questions that apply to you and follow the directions which may ask you to skip certain questions. In the absence of any instructions always go to the next question. Even if you feel only part of the questionnaire applies to you, or there are some questions that you cannot answer, please return the entire questionnaire in the enclosed postage-paid envelope.

We appreciate your participation and thank you for taking time to complete the questionnaire.

SECTION I

Questions in this section are about the objectives and outcomes of the international scientific activity in which you have participated.

① Some of the most frequently mentioned objectives for participating in international scientific activities are shown below. Which of the items do you consider to be important among your own objectives for engaging in this activity?

(Check all that apply.)

1. ☐ To stimulate my research in new or different directions.
2. ☐ To acquire information from foreign scientists on current research.
3. ☐ To advance my research through collaboration or close cooperation with a foreign research team.
4. ☐ To advance my research through access and use of foreign research facilities.
5. ☐ To collect data/specimens essential to my research.
6. ☐ To improve my institution's contacts with foreign students and faculty and/or improve my institution's programs that involve foreign nationals.
7. ☐ To disseminate knowledge to a foreign science community through teaching or lecturing.
8. ☐ To improve the curriculum or courses offered by a foreign science institution.
9. ☐ To plan, establish or strengthen relationships between U.S. and foreign scientific institutions.
10. ☐ To improve the relevance of the scientific research in a foreign country to its economic or social goals.
11. ☐ To plan future collaborative research with foreign scientists.
12. ☐ To improve the research capabilities of a foreign science institution.
13. ☐ Other objective, not listed above *(Please specify)*: ____________________

____

② Of those items selected in Question 1, which three do you consider to be your most important objectives?

(Please rank by placing the item numbers, from Q. 1, in the appropriate boxes below.)

MOST IMPORTANT	SECOND MOST IMPORTANT	THIRD MOST IMPORTANT
☐	☐	☐

③ Were there any positive outcomes of the international scientific activity in which you participated?

1. ☐ Yes *(ANSWER Q. 4)*
2. ☐ No *(GO TO Q. 6)*

4. Which, of the following items, do you consider as the important positive results of the scientific activity?

(Check all that apply.)

1. ☐ Shifted my research emphasis to more productive research problems and/or to a more fruitful research area.

2. ☐ Advanced my research, resulting in publications, presentations at meetings, etc.

3. ☐ Increased the volume and output of work in which I collaborated with foreign researchers.

4. ☐ Contributed to my professional advancement in that it enriched my teaching and/or increased the extent to which I am sought out by colleagues.

   (If this item is checked, please complete the following:)

   Please describe how. ____________________

   ____

5. ☐ Improved my institution's capability to attract and educate foreign students, as well as more general capability improvements.

   (If this item is checked, please complete the following:)

   Please describe how. ____________________

   ____

6. ☐ Increased the number of foreign scientists with whom I exchange information thus increasing the range of research about which I am knowledgeable.

7. ☐ Improved the research capability of a foreign science institution, as well as more general capability improvements.

   (If this item is checked, please complete the following:)

   Please describe how. ____________________

   ____

8. ☐ Improved the curriculum/courses of a foreign science institution.

9. ☐ Successful completion, by science students at a foreign institution, of one or several of my courses.

10. ☐ Contributed to the professional advancement of one or several foreign researchers.

    (If this item is checked, please complete the following:)

    Please describe how. ____________________

    ____

11. ☐ Established or advanced an institutional relationship between a U.S. and foreign science institution.

12. ☐ Increased the relevance of the scientific research in a foreign country to the country's social or economic goals.

    (If this item is checked, please complete the following:)

    Please describe how. ____________________

    ____

13. ☐ Other positive result *(Please specify)*: ____________________

    ____

⑤ Of those items selected in Question 4, which three do you consider to be the most important positive results?

(Please rank by placing the item numbers, from Q. 4, in the appropriate boxes below.)

MOST IMPORTANT	SECOND MOST IMPORTANT	THIRD MOST IMPORTANT
☐	☐	☐

⑥ Were there any negative outcomes of the international scientific activity in which you participated?

1. ☐ Yes → *(ANSWER Q. 7)*
2. ☐ No → *(GO TO Q. 9)*

⑦ Which of the following items do you consider as the important negative results of the scientific activity?

(Check all that apply.)

1. ☐ Loss of time at home set me back in my research.
2. ☐ My publication rate was diminished.
3. ☐ Activity abroad did not contribute to possibility of promotion at home.
4. ☐ Activity abroad contributed to loss of contacts with American colleagues.
5. ☐ My absence was disruptive to my department and institution.
6. ☐ My absence was disruptive to the training of my graduate students.
7. ☐ My requirements for resources and/or staff complicated the research projects of my foreign colleagues and led to their diminished productivity.
8. ☐ The relevance of the research in a foreign country to its economic or social goals was diminished.
9. ☐ The scientific resources of a foreign country decreased because one or several scientists migrated to U.S.
10. ☐ Other negative result *(Please specify)*: ______________________________

____

⑧ Of those items selected in Question 7, which three do you consider the most important negative results?

(Please rank by placing the item numbers, from Q. 7, in the appropriate boxes below.)

MOST IMPORTANT	SECOND MOST IMPORTANT	THIRD MOST IMPORTANT
☐	☐	☐

⑨ **What written products, if any, resulted from this activity?**

(Please give bibliographic information on: journal articles, papers presented at scientific meetings, dissertations, technical reports, manuals, books or textbooks or chapters in these, as well as those in progress, with expected dates of completion. Attach additional sheets if necessary.)

☐ *Check here if no documents produced.*

⑩ **What prototypes or other products, if any, resulted directly or indirectly from this activity?**

(Please list: prototypes of instruments and apparatus, experimental materials such as fibers, glass, plants, alloys, computer programs, and audio-visual materials, etc.)

☐ *Check here if no products produced.*

⑪ **On a scale ranging from "Poor" (1) to "Excellent" (5), what is your opinion of the overall productivity of this international scientific activity?**

(Check the box on the scale that corresponds to your opinion.)

POOR ——→ EXCELLENT

1	2	3	4	5
☐	☐	☐	☐	☐

⑫ **What changes, if any, would you recommend to improve the productivity of international scientific activities?**

☐ *Check here if no recommendations.*

⑬ **Is professional contact between you and your principal host or collaborator in the activity still maintained?**

1. ☐ Yes *(ANSWER Q. 14)*
2. ☐ No *(GO TO Q. 15)*

⑭ By what means have you maintained professional contact?

(Check all that apply, and GO TO Q. 16.)

1. ☐ Professional correspondence
2. ☐ About _____ visits a year
3. ☐ Cooperative or collaborative research between us
4. ☐ Relationships between our institutions
5. ☐ Other means *(Please specify)*: ______________________________

____

⑮ What are the reasons for not maintaining professional contact?

(Check all that apply.)

1. ☐ Our research and interests are so divergent I saw no value in further contact.
2. ☐ The scientist was not of high enough quality for me to devote more time to further contacts.
3. ☐ The ability of the scientist was adequate and we have interests in common, but I can more easily get similar information/expertise from U.S. researchers.
4. ☐ I attempted to continue contact with the scientist, but received no response.
5. ☐ The scientist expressed the view that continued contact would not be productive.
6. ☐ Other reason *(Please specify)*: ______________________________

____

⑯ About how many new colleagues did you establish contact with during this activity?

_______ (NUMBER) → *(ANSWER Q. 17)* OR ☐ NONE → *(GO TO Q. 19)*

⑰ Have you maintained professional contact with these new colleagues?

1. ☐ Yes → *(ANSWER Q. 18)*
2. ☐ No → *(GO TO Q. 19)*

⑱ By what means? *(Check all that apply.)*

1. ☐ Professional correspondence
2. ☐ About _____ visits a year
3. ☐ Cooperative or collaborative research between us
4. ☐ Relationship between our institutions
5. ☐ Other means *(Please specify)*: ______________________________

____

⑲ What other comments would you make on the outcomes, effects or consequences of this activity?

☐ *Check here if no additional comments.*

The questions in this section deal with how you spent your time, the resources used in this activity, their quality, and any problems you may have encountered.

⑳ Approximately what percentage of your time did you allocate to each of the following during the activity?

A. _______% Collaborative or cooperative research on a new project at a single institution.

B. _______% Continuation of work on a longer-term collaborative or cooperative research project at a single institution.

C. _______% Lecturing and/or discussing research, exchanging ideas and information, at one or several institutions.

D. _______% Fieldwork such as gathering specimens or data.

E. _______% Participating in an international scientific meeting or symposium.

F. _______% Teaching courses.

G. _______% Assisting a foreign institution, in research or curriculum improvement.

H. _______% Other activity *(Please specify)*: ______________________

____

I. _______% Other activity *(Please specify)*: ______________________

100 %

____

㉑ Was collaborative or cooperative research involved in this activity?

1. ☐ Yes *(ANSWER Q. 22)* 2. ☐ No *(GO TO Q. 33)*

㉒ What was the one institute or laboratory at which you spent most of your time?

____
(INSTITUTE OR LABORATORY)

____
(ADVISOR OR PRINCIPAL COLLABORATOR)

____
(ADVISOR'S OR PRINCIPAL COLLABORATOR'S POSITION)

㉓ Was this institute or laboratory in: *(Check one.)*

1. ☐ a Ministry or Department of the Government,
2. ☐ a university or other institution of higher learning,
3. ☐ an industrial corporation, or
4. ☐ some other facility? *(Please specify)*: ______________________

____

㉔ For each of the facilities or services listed below, please

A. indicate whether or not it was used during your visit,

B. rate the adequacy of those used on the scale provided, and

C. indicate if the facilities or services used were unique.

[By unique is meant that a similar resource was not easily accessible to you in the U.S.]

	A.		B.					C.	
	Not used	Used	Poor →				Excellent	Unique	Not unique
	1	2	1	2	3	4	5	1	2
1. Laboratory facilities and equipment	☐	☐	☐	☐	☐	☐	☐	☐	☐
2. Computer	☐	☐	☐	☐	☐	☐	☐	☐	☐
3. Library	☐	☐	☐	☐	☐	☐	☐	☐	☐
4. Office and conference space	☐	☐	☐	☐	☐	☐	☐	☐	☐
5. Clerical and technical services	☐	☐	☐	☐	☐	☐	☐	☐	☐

㉕ On a scale ranging from "Poor" (1) to "Excellent" (5), how would you rate the scientific quality of the work done in the program or group with which you interacted, as compared with U.S. research in the same area?

(Check the box on the scale that corresponds with your opinion.)

POOR →				EXCELLENT
1	2	3	4	5
☐	☐	☐	☐	☐

㉖ On a scale ranging from "Not Important" (1) to "Very Important" (5), how would you rate the impact of the knowledge and technical skills, contributed by the participating foreign members of the project team, on the achievement of the project objectives?

(Check the box on the scale that corresponds with your opinion.)

NOT IMPORTANT →				VERY IMPORTANT
1	2	3	4	5
☐	☐	☐	☐	☐

extent to which collaboration was an important factor in accomplishing the research objectives.

[By collaboration we mean close and continued interaction and extensive cooperation, including such factors as modification of your own ideas/approaches. Examples of products of collaborative research are jointly developed models or co-authored publications that represent an integration of the authors' ideas.]

(Check the box on the scale that corresponds with your opinion.)

NOT IMPORTANT ——————→ VERY IMPORTANT

1	2	3	4	5
☐	☐	☐	☐	☐

(28) Was this research essentially a continuation of the line of research in which you were engaged at home (in U.S.)?

1. ☐ Yes *(ANSWER Q. 29)*
2. ☐ No *(GO TO Q. 30)*

(29) Do you feel that you accomplished anything in your research abroad that you would not have accomplished at home (in U.S.)?

1. ☐ Yes
2. ☐ No *(GO TO Q. 30)*

*Please specify:*____

____

(30) Was the research essentially a continuation of the line of research in which the participating foreign scientists had been previously engaged?

1. ☐ Yes *(ANSWER Q. 31)*
2. ☐ No *(GO TO Q. 32)*

(31) Do you feel that they accomplished anything additional with your collaboration?

1. ☐ Yes
2. ☐ No *(GO TO Q. 32)*

*Please specify:*____

____

(32) How many, if any, foreign and/or U.S. graduate students participated in the project?

(Record the number of each in the appropriate box. If you can't remember the number, check the box.)

☐ Foreign ☐ U.S.

(33) Did you participate in a formal, scientific meeting or symposium during this activity?

1. ☐ Yes *(ANSWER Q. 34)*
2. ☐ No *(GO TO Q. 40)*

(34) What was the name of the scientific meeting, its principal organizer and his/her institutional affiliation?

____
(TITLE OF MEETING)

____
(PRINCIPAL ORGANIZER)

____
(INSTITUTIONAL AFFILIATION)

(35) Please provide the following information about this meeting.

Subject: ______________________

Duration: ______________________

Approximate number of participants: ______________________

(36) What role did this meeting play in your visit? *(Check one.)*

1. ☐ It was the primary reason for my visit.
2. ☐ It was one of several planned activities.
3. ☐ It was unanticipated in planning the visit, but I heard about it and/or my attendance was encouraged by my foreign colleagues.
4. ☐ Other role *(Please specify)*: ______________________

____

____

117

㊲ What was your participation in this meeting? *(Check all that apply.)*

1. ☐ Organizer or arranger
2. ☐ Participant/discussant
3. ☐ Observer
4. ☐ Presented invited paper
5. ☐ Presented contributed paper
6. ☐ Other participation *(Please specify):* ______________________________

____

㊳ What was the format of the meeting? *(Check one.)*

1. ☐ Program consisting primarily of invited papers, by well-established scientists.
2. ☐ Program consisting of invited and refereed papers.
3. ☐ Program consisting mainly of short presentations by all or most attendees and interactive discussion; few or no formal papers presented.
4. ☐ Other format *(Please specify):* ______________________________

____

____

㊴ On a scale ranging from "Poor" (1) to "Excellent" (5), what was your opinion on the quality of this meeting?

(For each of the items below, please check the box that corresponds to your opinion.)

POOR → EXCELLENT

	1	2	3	4	5
1. The arrangements for the meeting or symposium were:	☐	☐	☐	☐	☐
2. The context and quality of the presentations were:	☐	☐	☐	☐	☐
3. The size of the meeting in relation to what it sought to accomplish was:	☐	☐	☐	☐	☐
4. The opportunities for contact and discussions were:	☐	☐	☐	☐	☐
5. In comparison with other professional meetings, this one was:	☐	☐	☐	☐	☐

㊵ Did you teach a course during this activity?

1. ☐ Yes *(ANSWER Q. 41)*
2. ☐ No *(GO TO Q. 44)*

㊶ Please indicate the following for each course you taught during this activity. *(Attach additional sheets if necessary.)*

COURSE 1.

A. Title of course: ______

B. Subject: ______

C. Institution/Department: ______

D. Number of students: ______

E. Duration: ______

COURSE 2. ☐ *Check here if only one course taught.*

A. Title of course: ______

B. Subject: ______

C. Institution/Department: ______

D. Number of students: ______

E. Duration: ______

㊷ Was there any feature of this course (content, teaching, methods, etc.) that you thought particularly effective?

1. ☐ Yes 2. ☐ No → *(GO TO Q. 43)*

Please specify: ______

______

㊸ Was there any feature of this course that you thought particularly ineffective?

1. ☐ Yes 2. ☐ No → *(GO TO Q. 44)*

Please specify: ______

______

㊹ Did you engage in any activities aimed at improving the research or teaching capabilities of a foreign science institution?

1. ☐ Yes 2. ☐ No → *(GO TO Q. 48)*

Please specify: ______

______

(45) Was there any feature of this effort that you thought particularly effective?

1. ☐ Yes
2. ☐ No (*GO TO Q. 46*)

Please specify: ______________________________

____

(46) Was there any feature of this effort that you thought particularly ineffective?

1. ☐ Yes
2. ☐ No (*GO TO Q. 47*)

Please specify: ______________________________

____

(47) Were steps taken in this effort to link these research or teaching capability improvements to the social or economic goals of the country?

1. ☐ Yes
2. ☐ No (*GO TO Q. 48*)

Please specify: ______________________________

____

㊽ Some of the common problems encountered in participating in international scientific activities are shown below. Which, if any, were problems for you?

(Check all that apply.)

1. ☐ Inadequate living arrangements for a longer-term stay abroad.
2. ☐ Inefficient travel and hotel arrangements for trips.
3. ☐ Quality of scientific work lower than in the U.S.
4. ☐ Inadequate access to foreign colleagues for exchange of information/ideas.
5. ☐ Incompatibilities between my research interests and those of foreign colleagues.
6. ☐ Quality of scientific resources, such as materials, computers, instruments, or other research facilities, lower than in the U.S.
7. ☐ Inadequate access to research facilities.
8. ☐ Inadequate cooperation/equipment/funds for my collaborators/hosts from the responsible foreign government agency.
9. ☐ Inadequate access to field sites.
10. ☐ Difficulties in obtaining import/export licenses or customs approval for specimens, equipment, etc.
11. ☐ Inadequate time to accomplish objectives.
12. ☐ Poor planning; too much travel to allow for adequate information exchange.
13. ☐ Burdensome administrative requirements placed on the project by the responsible foreign government agency.
14. ☐ Other problem *(Please specify)*: ____________________
15. ☐ Other problem *(Please specify)*: ____________________
16. ☐ No problems *(If this item is checked, GO TO Q. 51.)*

㊾ Of those items selected in Question 48, which three do you consider to be the most important problems?

(Please rank by placing the item numbers, from Q.48, in the appropriate boxes below.)

MOST IMPORTANT	SECOND MOST IMPORTANT	THIRD MOST IMPORTANT
☐	☐	☐

(50.) Please discuss the problems, identified in Question 48, which delayed the activity or interfered with its accomplishments. If possible, recommend ways in which these problems can be alleviated.

(51.) Were there features of this activity that you thought particularly facilitated the accomplishment of objectives?

1. ☐ Yes 2. ☐ No (GO TO Q.52)

Please specify:

122

SECTION III

This section includes questions about your background, and how this project came about.

(52) What is your field of specialization?

____
(FIELD OF SPECIALIZATION)

(53) What is your current title or rank? *(Check the appropriate box(es).)*

1. ☐ Professor
2. ☐ Associate Professor
3. ☐ Assistant Professor
4. ☐ Other title, not listed above *(Please specify):* ____________________

(54) Roughly, what percentage of your time is devoted to the following activities?

A. ______% Research management

B. ______% Research

C. ______% Teaching

D. ______% Administration

E. ______% Other activity *(Please specify):* ____________________

100 %

(55) What is the highest degree that you have received?

____
(HIGHEST DEGREE)

(56) In what field or discipline was this degree granted?

____
(FIELD OR DISCIPLINE)

(57) In what month and year was this degree granted?

____________________ (MONTH)   ________ (YEAR)

123

(58) From which institution was the degree received?

____
(INSTITUTION GRANTING DEGREE)

(59) What country is that institution in?

____
(COUNTRY)

(60) What is your native language?

____
(NATIVE LANGUAGE)

(61) What is your sex?

1. ☐ Male 2. ☐ Female

(62) Did your participation in the scientific activity identified on the cover sheet last less than one month?

1. ☐ Yes *(ANSWER Q. 63)* 2. ☐ No *(GO TO Q. 65)*

(63) Approximately how many days did you spend on the activity?

____
(NUMBER OF DAYS)

(64) What date did you begin your participation in this activity?

(Please indicate month, day and year.)

______________ (MONTH) ________ (DAY) ________ (YEAR) → *(GO TO Q. 66)*

(65) What were the beginning and ending dates of your participation in this activity?

(Please indicate month and year.)

BEGAN: ______________ (MONTH) ________ (YEAR)

ENDED: ______________ (MONTH) ________ (YEAR)

(66) How old were you at the inception of this activity?

____
(AGE)

(67) At the time this activity began, what was your institutional affiliation?

____
(INSTITUTIONAL AFFILIATION)

(68) At the inception of this activity, what was your title or rank? *(Check the appropriate box(es).)*

1. ☐ Professor
2. ☐ Associate Professor
3. ☐ Assistant Professor
4. ☐ Other title, not listed above *(Please specify):*________________________
____

(69) In what field of specialization would you place your research while participating in this activity?

____
(FIELD OF SPECIALIZATION)

(70) Please indicate the number of times you have participated in each of the following activities, during the five years prior to the activity mentioned on the cover sheet.

(Check one box for each activity.)	None (0) 1	A Few (1-5) 2	Many (6+) 3
A. Trips abroad to scientific meetings.	☐	☐	☐
B. Post-doctoral research project(s) abroad.	☐	☐	☐
C. Collaborative research project(s) abroad.	☐	☐	☐
D. Teaching or lecturing abroad.	☐	☐	☐
E. Visit(s) to foreign scientific institutions to exchange information.	☐	☐	☐
F. Trip(s) abroad to gather data or specimens.	☐	☐	☐
G. Host to foreign scientist.	☐	☐	☐
H. Other activities involving foreign scientists. *(Please specify):*________________	☐	☐	☐

____

____

(71) How many of your visits abroad, noted in the answer to Question 70, were to the country or region specified on the cover of this questionnaire? *(Check one.)*

1. ☐ None (0)
2. ☐ A few (1-5)
3. ☐ Many (6+)
4. ☐ No visits abroad in Q. 70.

(72) This question refers to advances made in the field of the activity mentioned on the cover page. Do you try to keep up with the scientific advances made in the country or region specified on the cover of this questionnaire?

1. ☐ Yes → *(ANSWER Q. 73)*
2. ☐ No → *(GO TO Q. 75)*

(73) How do you attempt to keep up on these advances? Listed below are a number of potential information sources. Please choose the most important sources for you.

(Check all that apply.)

1. ☐ Visits to the country.
2. ☐ Visits by foreign scientists to U.S.
3. ☐ Attendance at international scientific meetings.
4. ☐ Literature sources.
5. ☐ Preprints/correspondence from foreign colleagues.
6. ☐ U.S. colleagues knowledgeable about the country.
7. ☐ Other source *(Please specify)*: ____________________

____

(74) Of those items selected in Question 73, which three do you consider to be the most important information sources?

(Please rank by placing the item numbers, from Q. 73, in the appropriate boxes below.)

MOST IMPORTANT	SECOND MOST IMPORTANT	THIRD MOST IMPORTANT
☐	☐	☐

⑮ Which of the following statements best describes what led you to seek funding for the activity with which this questionnaire is concerned? *(Check one)*

1. ☐ Foreign colleagues suggested I seek support for this activity.
2. ☐ Professional colleagues, at my university, suggested I seek support for this activity.
3. ☐ Professional colleagues in other U.S. universities suggested I seek support for this activity.
4. ☐ The NSF suggested I seek support for this activity.
5. ☐ I heard or read there were funds available and applied.
6. ☐ I developed the project on my own initiative, and then sought funding for it.
7. ☐ Other reason *(Please specify)*: ______________________________

____

(76) What was the approximate total cost of your participation in this activity?

$ ______________________
(APPROXIMATE TOTAL COST)

(77) What percentage of the funds were provided by the following sources?

(Enter percentage of total funding by each source.)

A. ______% National Science Foundation (NSF)

B. ______% Other government agency (not NSF)

C. ______% Academic source

D. ______% Industrial source

E. ______% Personal funds

F. ______% Private Foundations

G. ______% Other source *(Please specify)*: ______________________________

100 %

____

⑦⑧ If you had not received funding for the activity from the NSF Division which supported it, what would have been your next step? *(Check one.)*

1. ☐ Cancelled or postponed the activity.
2. ☐ Encouraged my institution to support it.
3. ☐ Sought funding from another NSF Division.
4. ☐ Sought funding from another U.S. Government Agency.
5. ☐ Sought funding from a foundation.
6. ☐ Sought funding from foreign sources.
7. ☐ Sought funding from an international organization.
8. ☐ Paid for it myself.
9. ☐ Asked for a budget reallocation on an existing NSF grant.
10. ☐ Other step *(Please specify)*: ______________________________

____

⑦⑨ In light of your participation in this activity, are there features (e.g. policies, level of support, operations, management, etc.) of NSF programs for support of international science activities which you feel are important to change?

1. ☐ Yes → *Please specify:* ______________________________

____

____

____

2. ☐ No → *(GO TO Q. 80)*

⑧⓪ Are there features of these programs which you feel it important not to change?

1. ☐ Yes → *Please specify:* ______________________________

____

____

____

2. ☐ No → *(GO TO Q. 81)*

(81) Please make any additional comments below.

(82) Finally, if you have a copy of your publications list that you can send us, please enclose it in the envelope with the questionnaire.

Thank you for completing this questionnaire. Please take a few minutes to make sure you have answered all the applicable items, and that your name and address appear on the cover. Use the postage-paid preaddressed envelope to return the questionnaire. If you would like to receive a copy of the survey results, check the box on the cover page.

APPENDIX D

Institutions Visited by Country

for SEED and COMPARISON Groups

Institution At Which Most of Time Was Spent, Presented by Country and SEED vs. Comparison Group

SEED Group Institution	SEED Group Number of Times Listed	COUNTRY	Comparison Group Institution	Comparison Group Number of Times Listed
		AFGHANISTAN		
Kabul University Cartography Facility	1			
		BOLIVIA		
Consortium for International Development - La Paz in Ministerio de Asuntos Campensinos y Agropecuarios	1			
Servicio Geologico de Bolivia	1			
		BRAZIL		
Departamento de Ciencias Socias Aplicadas	1		INPA, Instituto Nacional De Pesquisas da Amazonia	3
Federal University of Paraiba, Campina Grande, Brazil	1		RV Alpha Helix	5
ICE, da Universidade Federal de Monas Gerais			Universidade Federal de Para	1
Institute Biological Science Lab - Plant Pathology	1		Universidade de Sao Paulo	4
Instituto Biologico	1		University of Brasilia	1
Universidade Federale da Belria	1		University de Campinas	2
University of Sao Paulo	1			
Unspecified or illegible	1			

COUNTRY

SEED Group		Comparison Group	
Institution	Number of Times Listed	Institution	Number of Times Listed
CHILE			
Catholic University of Valparaiso, Chile	1	Cerro Tololo Interamerican Observatory	8
Dept. of Forestry Forest Pathology Lab	1	Departomento de Biologia	1
Universidade Federal Sao Carlos, Brasil	1	Departmento de Oceonografia	1
		Empresa Nacional del Petroleo (de Chile) - Punta Arenas Office	1
University Austral de Chile	1	Geological Survey of Chile	1
University of Chile	1	Instituto Antarctica Argentino	1
University of Concepcion, Chile	1	Instituto Hidrogratico Naval de la Armada del Chile	1
University of Santa Maria	1	Instituto do la Patagonia	1
		Las Campanas Observatory	2
		Observatorio Austral El Leoncito Yale	1
		Universidad Catolica de Chile	3
		Universidad de Chile	1
		Universidad Nac. de San Juan	1
		Universidad del Valparaiso	1
		Unspecified or Illegible	5

SEED Group		COUNTRY	Comparison Group	
Institution	Number of Times Listed		Institution	Number of Times Listed
		COLOMBIA		
EAFIT	1		Alpha Helix	1
Hospital Infantil de Bogota	1		Centro Internacional de Agricultura Tropical	1
Instituto de Asuntos Nucleares	1		Lomalinda Center in Colombia	1
Instituto de Pesquisas Hidraulicas, Porto Alegre, Brazil	1		My Own	1
Technical University of Bucarawonga	1			
Universidad Industrial de Santander	1			
Universidad Javeriana, Bogota Colombia S.A.	1			
Universidad de Medellin	1			
Universidad del Valle	2			
Unspecified or Illegible	1			
		COSTA RICA		
CATIE of the OAS	1		Centro Agronomico Tropical de Investigacion y Ensenanza, Turrialba, Costo Rica	1
Escuela Geol. Centro Amer., Univ. de C. Rica			Green Turtle Station, Tortuguero, Costa Rica	1
Genetic Resources Program - C.A.T.I.E. Turrialba, Costa Rica	1		La Selva Field Station	2

SEED Group		COUNTRY	Comparison	
Institution	Number of Times Listed		Institution	Number of Times Listed
		COSTA RICA		
Inst. Geol. Min. Petrol Government Agency	1		Museo Nacional de Costa Rica	1
University of Costa Rica	1		Smithsonian Tropical Research Institute	2
			University of Costa Rica	1
			Not Applicable	1
		DOMINICAN REP.		
Ministry of Agriculture	1			
Universidad Catolica Madre y Maestra	1			
		ECUADOR		
Escuela Politecnica Nacional	1		Darwin Research Station	1
INIAP	1		Museo del Banco Central in Guzyaquil	1
		GHANA		
Universidad of Dar es Salaam	1			
University of Ghana	1			
University of Science & Technology, Kumasi, Ghana	1			

SEED Group		COUNTRY	Comparison Group	
Institution	Number of Times Listed		Institution	Number of Times Listed
		GUATEMALA		
ICAITI	1			
Institute of Nutrition of Central America and Panama (INCAP)	1			
School of Engineering Universidad Rafael Laudivar	1			
		HAITI		
Department de l'Agriculture	1			
		HONDURAS		
Dir. Gen'l. de Minae e Hidrocarberos	1			
University of Honduras	1			
		INDIA		
Indian Institute of Technology, Kharagpur	1		Indian Statistical Institute	2
			International Statistical Institute	1
			Physical Research Lab	3
			RV Melville	1
			Tata Institute	1

SEED Group		COUNTRY	Comparison Group	
Institution	Number of Times Listed		Institution	Number of Times Listed
		INDONESIA		
Andalas University, Padong, Sumatra, Indonesia	1		Geol. Research and Development Center	1
BIOTROP	1		Indonesian Inst. Sciences - National Inst. of Mining & Geology (a sub-division)	1
Bogar Agricultural Univ., Faculty of Forestry (Indonesia	1		Lambaga Biologi Nationale	1
Gadja Madu Univ.,Yogya Karta, Java	1		Rumphius Memorial Laboratory	1
National Biological Institute of Indonesia	1		Wan Ecology Institute	2
Orchid Laboratory, Kebum, Reuja, Begor	1			
Rural Development Program, Gov't. of Indonesia	1			
Satya Wacana Christian University, Salatiga, Java	1			
		JAMAICA		
			Discovery Bay Marine Laboratory	3
			University of West Indies	3
		KENYA		
Gecaga Insti. Tropical and Comparative Endocrinology, U.Nairobi, Kenya	1		Amboseli National Park	1
Kanya Rangeland Ecological Monitoring Unit	2		East African Academy	1
University of Nairobi	6		Nairobi Museum (T.I.L.M.I.A.P.) Kenya	1
			National Museum of Kenya	6
			University of Nairobi	3

SEED Group		COUNTRY	Comparison Group	
Institution	Number Times Listed		Institution	Number Times Listed
		KOREA		
Korea Advanced Institute of Science	1		Unspecified or illegible	1
Korea Atomic Energy Research Institute	1			
Korea Institute of Science & Technology	4			
Seoul National University	1			
Sogang University	1			
Yonsei University, Seoul, Korea	1			
		MALAYSIA		
Regional Education Center for Science and Mathematics	4		Department of Meteorology	1
Southeast Asian Ministers of Education Organization	1		Forest Research Institute, Kepong, Selangor	1
			Lizard Island Research Station, Great Barrier Reef, Australia	1
			University of Malaya	1
		MEXICO		
Consejo de Recursos Minerales, Mexico, D.F.	1			

	SEED Group		Comparison Group	
COUNTRY	Institution	Number of Times Listed	Institution	Number of Times Listed
NEPAL				
	Tribhuvan University Institute of Science	1		
NIGERIA				
	Department of Geography	1	University of Ibadan	1
	I.I.T.A.	1	Unspecified or Illegible	1
	Instituto Biologico			
	Nigerian Mining Co.	1		
	University of Ibadan	2		
	University of Lagos, Lagos Nigeria	1		
PAKISTAN				
	Pakistan Institute of Nuclear Science and Technology	1		
PANAMA				
	University of Panama	1	Coco Solo Hospital	1
			Discovery Bay Marine Laboratory	1
			Smithsonian Tropical Research Institute	5
			Unspecified or Illegible	1

SEED Group		COUNTRY	Comparison Group	
Institution	Number Times Listed		Institution	Number of Times Listed
		PAPUA NEW GUINEA		
Division of Botany, Office of Forests, Lal Papua, New Guinea	1			
		PERU		
Catholic University of Peru	1		Cocha Cashie Biological Station Mann National Park	1
International Potato Center	1		Jicamarca Radio Observatory	5
University of Lima	1		Instituto Geofisico del Peru	2
			Instituto del Mar del Peru	7
			IMARDE, Institute Marine and Fisheries Research	4
			Instituto Nacional de Cultura Filial de Trujillo	1
			Instituto Oceonografico	1
			International Potato Center	1
			Universidad Catolica del Peru	1
			Univ. de Huamanga	1
			Univ. Nacional Agraria	1
			Univ. Nacional de Amazonia	1
			Univ Nacional Mayor de San Marcos	2
			Univ. Nacional del Trujillo	1
			Unspecified or illegible	4

SEED Group		COUNTRY	Comparison Group	
Institution	Number of Times Listed		Institution	Number of Times Listed
		PHILLIPPINES		
ASEAN Postharvest Horticulture Training & Research Center	1		Institute for Philippine Culture	1
Institute for Small Scale Industries	1		Ministry of Nieves, Manila	1
International Rice Research Institute	2		National Museum of the Philippines	1
Silliman University	2		Phili Bureau of Mines	1
Southern Capital Colleges	1		Silliman University	1
University of the Philippines	3		Unspecified or Illegible	1
		SRI LANKA		
Bogar Agr'l. Univ	1			
		SUDAN		
Department of Business Administration	1			
		TANZANIA		
Ardhi House	1			
		THAILAND		
Asian Institute of Tech.	1			
Institute for the Promotion of Science & Technology	1			

SEED Group		COUNTRY	Comparison Group	
Institution	Number of Times Listed		Institution	Number of Times Listed
		THAILAND (cont'd)		
Kasetsart University	2			
Research Center, Ramathibodi Hospital, Bangkok	1			
		TRINIDAD		
Ministry of Agriculture	1			
		TURKEY		
Bagazici Universitasi	3			
Geological Engineering Dept.	1			
Middle East Technical University	1			
		VENEZUELA		
Instituto Venezolano de Investigaciones Cientificas	1		Fundacion Centro de Investigacion de Astronomia	1
			I.E.S.A.	1
			Instituto de Botonica, Sao Paulo, Brazil	1
			Instituto Venezolano de Investigaciones Cientificas	5
			INTEC	1
			M.I.T.	1
			Servicio de Meteorologia	1
			Universidad Central de Venezuela	1
			Univ. Nacional Agraria	1
			Univ. de Oriente	

SEED Group Institution	Number of Times Listed	COUNTRY	Comparison Group Institution	Number of Times Listed
		ZAMBIA		
Zambian Department of Fisheries	1		The Institute for African Studies, Lusaka Zambia	1